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DATE: Sunday, March 19, 2006

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L3	L2 and "Lactococcus lactis"	4
<input type="checkbox"/>	L2	"Bifidobacterium" and "siderophore"	17
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L1	6746672.pn.	1

END OF SEARCH HISTORY

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DATE: Sunday, March 19, 2006

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L3	L1	4
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L2	"Bifidobacterium" and "dipyridyl"	1
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L1	"Bifidobacterium" and "dipyridyl"	4

END OF SEARCH HISTORY

=> d 13 4 ab

L3 ANSWER 4 OF 5 PASCAL COPYRIGHT 2006 INIST-CNRS. ALL RIGHTS RESERVED. on
STN

AB A competitive exclusion (CE) culture of chicken cecal anaerobes has been developed and used in this laboratory for control of *Salmonella typhimurium* in chickens. The CE culture consists of 29 different species of microorganisms, and is known as CF3. Detection of one of the CF3 bacteria, Eubacteria, and *S. typhimurium* were demonstrated using a commercial immunomagnetic (IM) electrochemiluminescence (ECL) sensor, the ORIGEN.sup.® Analyzer. Analysis was achieved using a sandwich immunoassay. Bacteria were captured on antibody-conjugated 280 micron sized magnetic beads followed by binding of reporter antibodies labeled with ruthenium (II) tris(dipyridyl) chelate (Ru(bpy).sub.3.sup.2.sup.+). The magnetic beads were then trapped on an electrode in the reaction cell of the ORIGEN.sup.® Analyzer by a magnet, and the ECL was evoked from Ru(bpy).sub.3.sup.2.sup.+ on the tagged reporter antibodies by an electrical potential at the electrode. Preliminary IM-ECL assays with Eubacteria yielded a detection limit of 10.sup.5 cfu/mL. Preliminary IM-ECL assays with *S. typhimurium* yielded a similar detection limit of 10.sup.5 cfu/mL.

=> d 13 5 ab

L3 ANSWER 5 OF 5 MEDLINE on STN DUPLICATE 3

AB *Bifidobacterium bifidus* var. *Pennsylvanicus*, a microaerophilic anaerobe, was grown in the presence of several potential growth inhibitors with the aim of defining its growth requirements and metabolic peculiarities. The following had no effect on its growth: citrate, serum transferrin, serum albumin, colchicine, fluoro-acetate, malonate, and rotenone. The following substances inhibited the growth: fluoride, azide, arsenite, 2, 4-dinitrophenol, hemin, hemoglobin, lactoferrin, alpha, alpha'-bipyridyl, and 8-hydroxyquinoline. Ferrous iron was able to negate the inhibition achieved by alpha, alpha'-bipyridyl, and 8-hydroxyquinoline. It is concluded that iron, probably in its ferrous state, is an obligatory nutrient for the microorganism, and that iron-porphyrin system(s) may be essential for the metabolism of this organism. Because the microorganisms contained in addition to iron large quantities of Mn, Zn, and Cu, it is likely that these metalloelements are crucial for the normal growth of the organism. Growth inhibition by fluoride indicates that Mg-dependent enzymes may also be present in the microorganism.

=> d hist

(FILE 'HOME' ENTERED AT 20:49:09 ON 19 MAR 2006)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFU, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 20:49:41 ON 19 MAR 2006
SEA DIPYRIDYL AND BIFIDOBACTERIUM

1 FILE IFIPAT
1 FILE MEDLINE
1 FILE PASCAL
1 FILE TOXCENTER
3 FILE USPATFULL
1 FILE USPAT2

L1 QUE DIPYRIDYL AND BIFIDOBACTERIUM

FILE 'IFIPAT, MEDLINE, TOXCENTER, USPATFULL' ENTERED AT 20:50:52 ON 19 MAR 2006

FILE 'IFIPAT, MEDLINE, PASCAL, TOXCENTER, USPATFULL, USPAT2' ENTERED AT

20:51:05 ON 19 MAR 2006

8 S L1

L3 5 DUP REM L2 (3 DUPLICATES REMOVED)

=> d hist

(FILE 'HOME' ENTERED AT 20:49:09 ON 19 MAR 2006)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 20:49:41 ON 19 MAR 2006
SEA DIPYRIDYL AND BIFIDOBACTERIUM

1 FILE IFIPAT
1 FILE MEDLINE
1 FILE PASCAL
1 FILE TOXCENTER
3 FILE USPATFULL
1 FILE USPAT2

L1 QUE DIPYRIDYL AND BIFIDOBACTERIUM

FILE 'IFIPAT, MEDLINE, TOXCENTER, USPATFULL' ENTERED AT 20:50:52 ON 19 MAR 2006

FILE 'IFIPAT, MEDLINE, PASCAL, TOXCENTER, USPATFULL, USPAT2' ENTERED AT 20:51:05 ON 19 MAR 2006

L2 8 S L1

L3 5 DUP REM L2 (3 DUPLICATES REMOVED)

=> d 13 1-5

L3 ANSWER 1 OF 5 IFIPAT COPYRIGHT 2006 IFI on STN DUPLICATE 1

AN 10683993 IFIPAT;IFIUDB;IFICDB

TI BIFIDOBACTERIA AND SIDEROPHORES PRODUCED THEREBY AND METHODS OF USE

IN O'Sullivan Daniel J

PA Minnesota, University of Regents (56024)

PI US 2004191233 A1 20040930

AI US 2004-822533 20040412

RLI US 2001-884894 20010619 DIVISION 6746672

PRAI US 2000-212273P 20000619 (Provisional)

FI US 2004191233 20040930

US 6746672

DT Utility; Patent Application - First Publication

FS CHEMICAL

APPLICATION

CLMN 19

L3 ANSWER 2 OF 5 USPATFULL on STN

AN 2004:227022 USPATFULL

TI Microorganism coating components, coatings, and coated surfaces

IN McDaniel, C. Steven, Austin, TX, UNITED STATES

PA REACTIVE SURFACES, LTD. (U.S. corporation)

PI US 2004175407 A1 20040909

AI US 2004-792516 A1 20040303 (10)

RLI Continuation of Ser. No. US 2003-655345, filed on 4 Sep 2003, PENDING

PRAI US 2002-409102P 20020909 (60)

DT Utility

FS APPLICATION

LN.CNT 15385

INCL INCLM: 424/423.000

INCLS: 435/287.200

NCL NCLM: 424/423.000

NCLS: 435/287.200

IC [7]

ICM C12M001-34

ICS A61F002-00

IPCI C12M0001-34 [ICM,7]; A61F0002-00 [ICS,7]

IPCR A01N0063-00 [I,A]; A01N0063-00 [I,C]; A61F0002-00 [I,A];
A61F0002-00 [I,C]; A61K0038-43 [I,C]; A61K0038-46 [I,A];
A61K0038-48 [I,A]; A61K0039-00 [I,A]; A61K0039-00 [I,C];
A61K0047-48 [I,A]; A61K0047-48 [I,C]; C09D0005-00 [I,A];
C09D0005-00 [I,C]; C09D0007-12 [I,A]; C09D0007-12 [I,C];
C12M0001-34 [I,A]; C12M0001-34 [I,C]; C12N0009-00 [I,A];
C12N0009-00 [I,C]; C12N0009-14 [I,A]; C12N0009-14 [I,C];
C12N0009-88 [I,A]; C12N0009-88 [I,C]; C12N0009-90 [I,A];
C12N0009-90 [I,C]; C12N0011-00 [I,C]; C12N0011-08 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 5 USPATFULL on STN DUPLICATE 2
AN 2002:112591 USPATFULL
TI Bifidobacteria and siderophores produced thereby and methods of use
IN O'Sullivan, Daniel J., Plymouth, MN, UNITED STATES
PI US 2002058326 A1 20020516
US 6746672 B2 20040608
AI US 2001-884894 A1 20010619 (9)
PRAI US 2000-212273P 20000619 (60)
DT Utility
FS APPLICATION
LN.CNT 911
INCL INCLM: 435/252.100
INCLS: 424/093.400
NCL NCLM: 424/093.400; 435/252.100
NCLS: 435/252.100; 435/822.000
IC [7]
ICM A61K045-00
ICS C12N001-20
IPCI A61K045-00 [ICM,7]; C12N0001-20 [ICS,7]
IPCI-2 A01N0063-00 [ICM,7]; C12N0001-00 [ICS,7]; C12N0001-12 [ICS,7];
C12N0001-20 [ICS,7]
IPCR A23C0019-00 [I,C]; A23C0019-06 [I,A]; A23L0001-015 [I,A];
A23L0001-015 [I,C]; A61K0035-66 [I,C]; A61K0035-74 [I,A];
C07K0014-195 [I,A]; C07K0014-195 [I,C]

L3 ANSWER 4 OF 5 PASCAL COPYRIGHT 2006 INIST-CNRS. ALL RIGHTS RESERVED. on
STN
AN 1999-0481891 PASCAL
CP Copyright .COPYRGT. 1999 INIST-CNRS. All rights reserved.
TIEN Detection of bacteria from a cecal anaerobic competitive exclusion
culture with an immunoassay electrochemiluminescence sensor
Pathogen detection and remediation for safe eating : Boston MA, 5
November 1998
AU BEIER R. C.; YOUNG C. R.; STANKER L. H.
YUD-REN CHEN (ed.)
CS Food Animal Protection Research Laboratory, Agricultural Research
Service, U.S. Department of Agriculture, 2881 F & B Road, College
Station, TX, 77845-4998, United States
International Society for Optical Engineering, Bellingham WA, United
States (patr.)
SO SPIE proceedings series, (1999), 3544, 10-20, 45 refs.
Conference: Pathogen detection and remediation for safe eating.
Conference, Boston MA (United States), 5 Nov 1998
ISSN: 1017-2653
ISBN: 0-8194-3005-6
DT Journal; Conference
BL Analytic
CY United States
LA English
AV INIST-21760, 354000084603060020

L3 ANSWER 5 OF 5 MEDLINE on STN DUPLICATE 3
AN 82049038 MEDLINE
DN PubMed ID: 6794942
TI The effect of metal chelators and other metabolic inhibitors on the growth
of *Bifidobacterium bifidus* var. *Pennsylvanicus*.
AU Bezkorovainy A; Topouzian N
SO Clinical biochemistry, (1981 Jun) Vol. 14, No. 3, pp. 135-41.

JOURNAL CODE: 0133660. ISSN: 0009-9120.

CY Canada

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 198201

ED Entered STN: 19900316

Last Updated on STN: 19970203

Entered Medline: 19820120